

E.G. Melikyan

354

31

3

THE INTERNAL COMPTON EFFECT E. G. Melikyan
(Moscow State Univ.), Soviet Phys. JETP 4, 100-1 (1957)

July.

A general formula is derived for the relative probability
of the Compton effect for both magnetic and electric trans-
itions in the Born approximation, and numerical calcula-
tions are carried through for some specific cases. (L.T.W.)

GR //

AUTHOR MELIKYAN E.G. PA - 2698
TITLE The Interior COMPTON Effect on the Occasion of Conversion in Pairs.
PERIODICAL (Vnutrennyy Kompton-effekt pri parnoy konversii - Russian)
Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 2, pp 384-385 (USSE)
Received 5/1957 Reviewed 6/1957

ABSTRACT If the energy of the transition of a nucleus from an excited state into the ground state is greater than $2mc^2$, (m - mass of the electron) (according to the reviewers' opinion this ought to be mc^2 and not mc !), a discharge of the nucleus is possible on the occasion of which an electron-positron-pair is produced and a γ quantum is radiated. Such a process may be described as an interior COMPTON effect with conversion in pairs. Next, formulae for the relative differential probability of this effect (in BORN'S approximation) are given. This differential relative probability is the ratio: absolute probability of the interior COMPTON effect on the occasion of conversion in pairs/probability of radiation transition of this nucleus. The FEYNMAN graphs of the processes investigated here are analogous to the FEYNMAN graphs of the COMPTON effect on atomic electrons. The rather voluminous formulae of this relative differential probability are explicitly given for the magnetic total $2j$ -transition and for the electric total $2j$ -transition. In the extremely relativistic case these formulae are simplified considerably. In this case the same expression is obtained for magnetic and for electric transition. For the ratio of the differential probability of the interior COMPTON effect with respect to the probability of the conversion of gamma rays with forming of

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The Interior COMPTON Effect on the Occasion of Conversion in Pairs. PA - 2698

pairs the following formula is obtained in rough approximation:

$$d\gamma_j/d\beta_j = (\alpha/2\pi) kdk/(\Delta E - k)^2. \quad \Delta E - k \gg m.$$

ASSOCIATION Moscow State University
PRESENTED BY
SUBMITTED 30.10.1956
AVAILABLE Library of Congress
Card 2/2

ABAGYAN, G.V.; BAYATYAN, G.L.; MATOYAN, D.S.; MELIKYAN, E.G.

Semiautomatic computer of second differences. Prib. i tekhn. eksp.
no.4:131-132 Jl-4g '60. (MIRE 13:9)

1. Yerevanskij gosudarstvennyj universitet.
(Calculating machines)

86758

S/120/60/000/006/034/045
E032/E314

21,5200 (1033, 1191, 1049)

AUTHORS: Gasparyan, L.G., Matoyan, D.S. and Melikyan, E.G.

TITLE: A Reflected-light Illuminator for Use in Scanning
Thick Photographic Emulsions

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 6,
p. 121

TEXT: In following long tracks of relativistic particles in thick photographic emulsions, considerable eye strain is involved on account of the apparent low contrast of the image. In order to increase this contrast, the present authors have used a reflected-light illuminator (type OM-21 (OI-21)). This illuminator is shown in Fig. 1. The latter has the disadvantage that light reflected from various parts of it, as well as the light coming from the object, enters the eyepiece. The light is largely reflected from the end of the drive 1 and the lenses of the objective 2 (Fig. 1). These disadvantages were removed by the following modifications. The drive 3 is replaced by the hollow tube 4 whose inner surface is coated with a black matt paint (Fig. 2). The light

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E032/E314

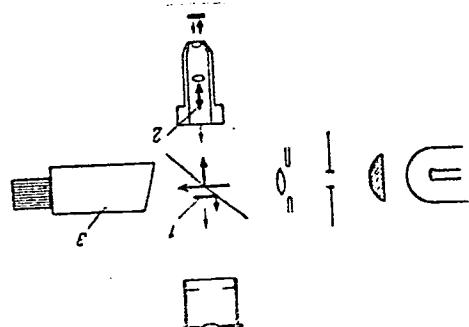
A Reflected-light Illuminator for Use in Scanning Thick Photographic Emulsions

reflected from the objective is reduced by using a ring-shaped aperture 5 in the light source. The external diameter of this ring is chosen so that its projection onto the objective is equal to the diameter of the top lens of the latter, while the inner diameter is chosen so as to obtain the maximum contrast. The distance between the illuminator and the microscope lies between 25 and 30 cm and the image of the track is then obtained in the form of bright points of light (silver grains) against a dark background. This method can also be used to study the surfaces of metals and biological specimens. Sometimes, it is convenient to make the inner disc 7 adjustable so that different effects of illumination can be obtained.

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A reflected-light Illuminator for Use in Scanning Thick
Photographic Emulsions

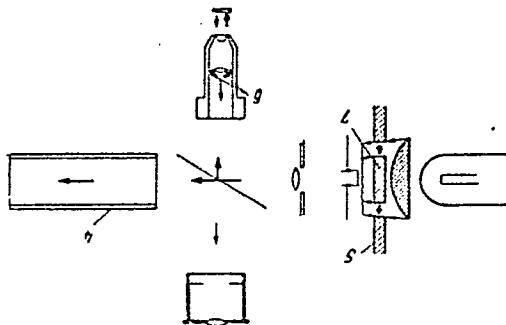


Card 3/4

86758

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E032/E314

A Reflected-light Illuminator for Use in Scanning Thick Photographic Emulsions



There are 2 figures.

ASSOCIATION: Yerevanskiy gosudarstvennyy universitet
Card 4/4 (Yerevan State University)

SUBMITTED: October 6, 1959

MELIKYAN, E.G.

Current distribution in a pentode. Izv. vys. ucheb. zav.;
radiotekh. 5 no.4:530-531 Jl-Ag '62. (MIRA 16:6)

1. Rekomendovano kafedrov radiofiziki Yerevanskogo gosudarstvennogo universiteta.
(Electron tubes)

L 45446-66 EWT(d) IJP(c)

ACC NR: AR6017334

SOURCE CODE: UR/0044/66/000/001/B047/B047

23

B

AUTHOR: Melikyan, E. G.

16

TITLE: Determination of the limiting cycle of a nonlinear differential equation

SOURCE: Ref. zh. Matematika, Abs. 1B211

REF SOURCE: Uch. zap. Yerevansk, un-t, v. 93, 1964, 3-4TOPIC TAGS: differential equation, Taylor series, NONLINEAR DIFFERENTIAL EQUATIONABSTRACT: Suppose that $\rho(\theta; r, \varphi)$ is the solution of the equation

$$\frac{d\rho}{d\theta} = \psi(\rho, \theta) \quad (1)$$

with the initial condition that $\rho=r$ while $\theta=\varphi$. The author suggests that the limiting cycle $\gamma(\varphi)$ be determined from the equation

$$\psi(\rho(\varphi+t; r, \varphi); \varphi+t) |_{t=2\pi} = \psi(r, \varphi) \quad (2)$$

by expanding the left side into a Taylor series in terms of t (recorded symbolically) and finding the derivatives at $t = 0$ from equation (1). Reviewer's comment: If

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UDC: 5 7.917

L 45146-66

ACC NR: AR6017334

$\frac{\partial \psi}{\partial p}$ changes its sign, equation (2) can also be satisfied by other than
limiting cycles. A. Filippov. [Translation of abstract]

[KP]

SUB CODE: 12/ SUBM DATE: none/

LS
Card 2/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033410015-3

MELIKYAN, G.

MELIKYAN, G., inzhener; POGOSYAN, G., inzhener; KAFADARYAN, I., inzhener.

Large-block construction using natural stone in Armenia. Gor.i
sel'.stroi. no.7:3-4 Jl '57. (MIRA 10:10)
(Armenia--Building blocks)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033410015-3"

MELIKYAN, G.M.

Distribution of watering places in Alpine summer pastures of
Agnagan. Izv.AN Arm.SSR,Biol.i sel'khoz.nauki. 4 no.7:623-631
'51. (MLRA 9:8)

1. Yerevanskiy sel'skokhosyaystvennyy institut.
(Agnagan Range--Water supply, Rural)

RAD'KO, Aleksandr Fedorovich; MELIKYAN, Georgiy Melikovich; ORLOVA, V.P.,
redaktor; PAVLOVA, M.M., tekhnicheskly redaktor

[Irrigation and water supply for mountain pastures] Obvodnenie i
vodosnabzhenie gornykh pastbishch. Moskva, Gos. izd-vo selkhoz.
lit-ry, 1956. 99 p. (MLR 10:1)
(Pastures and meadows) (Water supply, Rural)

MELIKYAN, G.M.

Hydraulic characteristics of automatic waterers. Izv.AM Arm.SSR.Biol.
i sel'khoz.nauki 9 no.6:101-107 Je '56. (MIRA 9:9)
(Water supply, Rural)

~~MELIKYAN G. K.~~

Calculating the discharge of water through automatic waterers and
the percentage of simultaneously used waterers. Izv. AN Arm. SSR.
Biol. i sel'khoz. nauki 11 no. 5:101-106 My '58. (MIRA 11:7)

1. Artyanskij sel'skokhozyaystvennyy institut.
(Cattle--Watering)

MELIKYAN, G. O. - MERTCHIAN, K.A.

Central heating systems based on "overheated water". Izv. AN Arm.
SER. Ser. FIZM nauk 9 no.10:87-101 '56. (MLRA 10:4)

1. Yerevanskiy politekhnicheskiy institut imeni K. Marksaa.
(Hot-water heating)

TER-MKRTCHYAN, K.; MELIKYAN, G. O.

Selecting rated outside temperature of air for heating systems
in Armenia. Prom.Arm. 4 no.5:58-61 My '61. (MIRA 14:8)

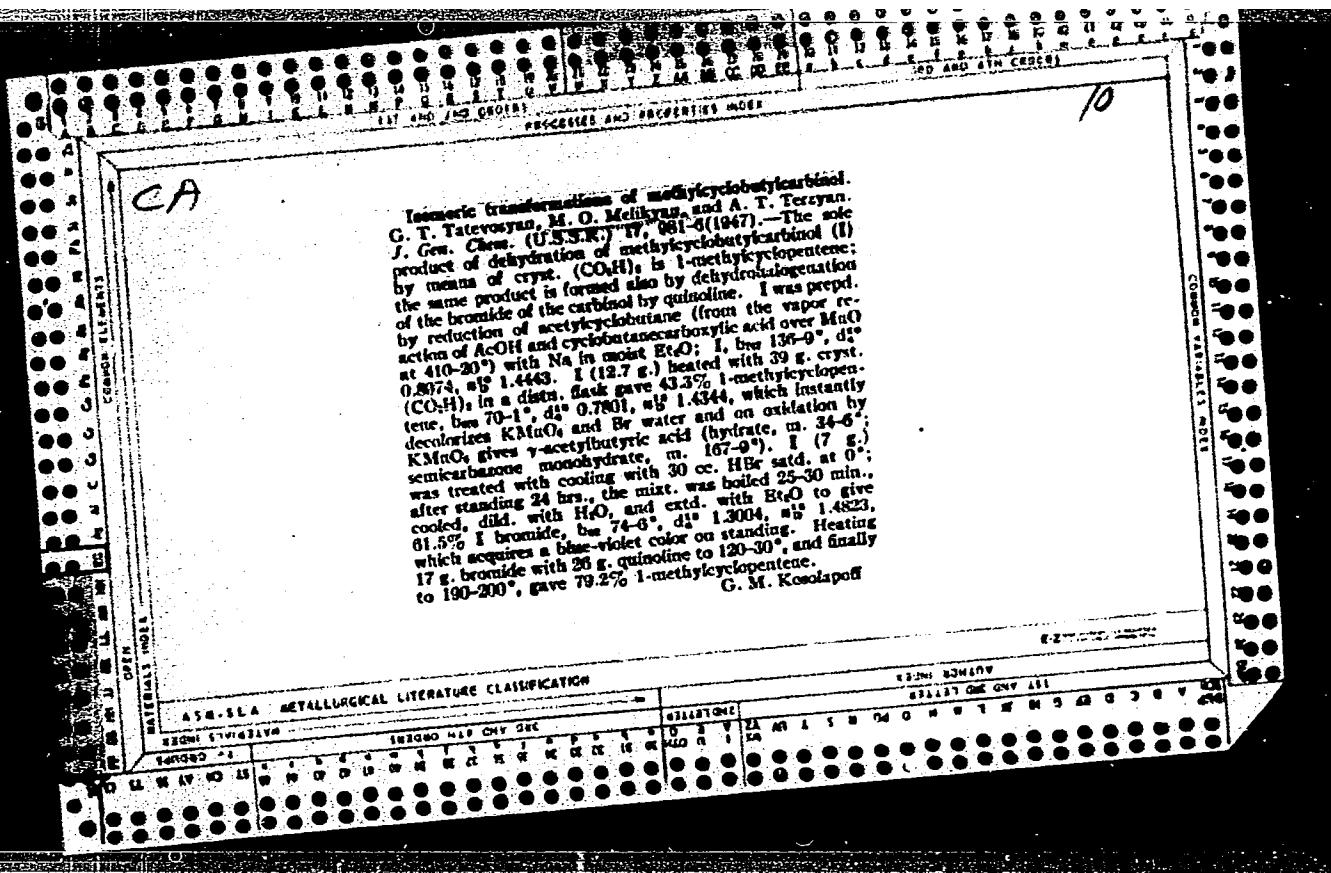
1. Nauchno-issledovatel'skiy sektor Yerevanskogo politekhnicheskogo
instituta.
(Hot-air heating) (Armenia--Atmospheric temperature)

MELIKYAN, M. M.

Dissertation: "Natural Forage Lands of the Vardenin Mountain Range (Armenian SSR) and Basic Measures for Their Improvement and Efficient Utilization." Cand Agr Sci, Yerevan Zooveterinary Inst, 19 Jun 54. (Kommunist, Yerevan, 6 Jun 54)

SO: SUM 318, 23 Dec 1954

PROCESSES AND PROPERTIES INDEX										240 AND 410 COPIES										
CA										10										
Synthesis of substituted γ -acetylbutyric acids. G. T. Tatevosyan and M. O. Melikyan (Chem. Inst. Armenian SSR Acad. Sci.), J. Gen. Chem. (U.S.S.R.) 19, 975-80 (1947). Di-Et ester of (3-chloro-2-butenoyl)malonate, b.p. 130-8°, d ₄ ²⁰ 1.0500, n _D ²⁰ 1.4587, was prep'd. in 52% yield by addn. of 81 g. CICH ₂ CH:CClMe slowly to BuCNa(CO ₂ Et) ₂ (from 15 g. Na, 168 g. abs. EtOH, and 140 g. BuCH(CO ₂ Et) ₂), followed by refluxing 4 hrs., distn. of the EtOH, addn. of dil. HCl to dissolve the NaCl ppt., sepn. of the org. layer, and extrn. of the aq. layer with (CH ₃) ₂ Cl. The ester (60 g.), 23.9 g. NaOH, and 300 cc. 96% EtOH were refluxed 3 hrs.,稀d. with 100 cc. H ₂ O, and freed of EtOH by distn.; the cooled mixt. treated with 90 g. 25% HCl and filtered, gave 66.07% MeCCl:CHCH ₂ CBr(CO ₂ Et) ₂ , m. 129° (from H ₂ O). The latter (28.1 g.) heated on a free flame, followed by distn., gave 80.1% bish(3-chloro-2-butenoyl)acetic acid, b.p. 134-6°, d ₄ ²⁰ 1.0417, n _D ²⁰ 1.4671, a viscous oil, insol. in H ₂ O. This (15 g.) was treated with ice cooling and stirring, with 18.7 g. concd. H ₂ SO ₄ , and the mixt. was allowed to stand 2 days with occasional shaking; on cooling and addn. of 25 cc. H ₂ O and 18.7 g. K ₂ CO ₃ , followed by extrn. with Et ₂ O and distn., there was obtained 85.8% α -benzyl- γ -acetylbutyric acid, b.p. 147-9°, d ₄ ²⁰ 1.0102, n _D ²⁰ 1.4425; semicarbazone m. 139-40° (from H ₂ O). CICH ₂ CH:CClMe (74.32 g.) with iso-AmCNa(CO ₂ Et) ₂ (from 18.7 g. Na, 136.76 g. iso-AmCH(CO ₂ Et) ₂ , and 154 g. abs. EtOH) gave 70.3% di-Et isooamyl(3-chloro-2-butenoyl)malonate, b.p. 158-60°, d ₄ ²⁰ 1.0322, n _D ²⁰ 1.4630. This (3 g.), hydrolyzed by 3 g. KOH in 25 cc. H ₂ O, gave 52% isoamyl(3-chloro-2-butenoyl)malonic acid, m. 145-6° (from H ₂ O).										H ₂ O, insol. in cold H ₂ O. Thermal decompr. of this gave 80.3% isoamyl(3-chloro-2-butenoyl)acetic acid, b.p. 143-4°, m. 22-4°. This (8.25 g.) was hydrolyzed by 9.6 cc. concd. H ₂ SO ₄ , as described above, to give 80.4% α -benzyl- γ -acetylbutyric acid, b.p. 170°, d ₄ ²⁰ 0.9902, n _D ²⁰ 1.4513; semicarbazone m. 152-4° (from water). CICH ₂ CH:CClMe (68 g.) with PhCH ₂ CNa(CO ₂ Et) ₂ (from 117.7 g. PhCH ₂ CH(CO ₂ Et) ₂ , 11 g. Na, and 120 g. EtOH) gave 90.1% di-Et benzyl(3-chloro-2-butenoyl)malonate, b.p. 165-6°, d ₄ ²⁰ 1.1176, n _D ²⁰ 1.5002. This (50 g.) was hydrolyzed by 13 g. NaOH in 250 cc. EtOH to give 42.37% benzyl(3-chloro-2-butenoyl)malonic acid, m. 142-3° (from H ₂ O). Thermal decompr. gave 84.43% benzyl(3-chloro-2-butenoyl)acetic acid, b.p. 193-7°, d ₄ ²⁰ 1.1361, n _D ²⁰ 1.5205 (oxidation by alk. KMnO ₄ at room temp. gave benzylsuccinic acid, m. 168-60°); 8 g. of this with 6 cc. 84.5% H ₂ SO ₄ gave 85.64% α -benzyl- γ -acetylbutyric acid, m. 63-4°, b.p. 192-6°; semicarbazone m. 153-5° (from EtOH). G. M. Kosolapoff										
A.I.E.S.A. METALLURGICAL LITERATURE CLASSIFICATION										E-2 100-1000										
SECTION 1A										SECTION 2A										
SECTION 1B										SECTION 3B										
SECTION 4B										SECTION 5B										



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1987

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Synthesis of 1-methyl-4-alkyl-1-cyclohexen-3-one. M. O. Arefikyan and G. T. Tatevosyan. *Zhur. Obshchekh. Khim.* (J. Gen. Chem.) 21, 600-703 (1951). To the Na-derivative of $\text{AcCH}_2\text{CH}(\text{CH}_3)_2\text{CO}_2\text{Et}$ from 80 g. of the ester, 10 g. Na, and 114 g. abs. EtOH, was added with cooling 55.6 g. $\text{MgCl}_2\text{CH}(\text{CH}_3)_2\text{Cl}$; acidification and extn. with CaCO_3 , after 3 days yielded 27.75% *E*-*isopropyl-4-(3-chloroacetyl)acetate*, (I), b.p. 121-7°, d_4^{20} 1.4715, n_D^{20} 1.4720; this (10.1 g.) treated, dropwise, with ice cooling, with 9.6 ml. H_2SO_4 (d. 1.78), let stand 2 days, and treated with 15.4 ml. H_2O and 15.7 g. NaCO_3 gave 63.1% 1-methyl-4-*isopropyl-4-carbetoxy-1-cyclohexen-3-one*, b.p. 141-4°, d_4^{20} 1.4398, n_D^{20} 1.4338 (cf. Walker, *J. Am. 30*, 1022). A small amt. of 1-methyl-4-*isopropyl-4-oxohexan-3-one*, b.p. 102°, also forms; this is obtained in 6.2% yield on refluxing the ester 12 hrs. with MeOH-KOH . The pure product, b.p. 111-115°, d_4^{20} 0.9115, n_D^{20} 1.4811 (oxime, m. 117-18°), is identical with naturally occurring *D-piperitone*. Oxidation by alk. KMnO₄ gives $\text{AcCH}_2\text{CH}(\text{CH}_3)_2\text{CH}(\text{CO}_2\text{H})_2$, isolated as the semicarbazone, m. 150-7°. Similarly the *Bu*₄ analog of I gave 72.5% *E*-*isobutyl-4-(3-chloroacetyl)acetate*, b.p. 107-9°, d_4^{20} 1.0300, n_D^{20} 1.4028, hydrolyzed by 9.6 ml. H_2SO_4 as above to 62.7% 1-methyl-*isobutyl-4-carbetoxy-1-cyclohexen-3-one*, b.p. 111.5-12.5°, d_4^{20} 1.0155, n_D^{20} 1.4780, which on refluxing with MeOH-KOH gave 67.27% 1-methyl-*isobutyl-4-cyclohexen-3-one*, b.p. 95.0°, d_4^{20} 0.9314, n_D^{20} 1.4730 (semicarbazone, m. 180-22°). Oxidation with KMnO₄ gives $\text{AcCH}_2\text{CH}(\text{CH}_3)_2\text{CH}(\text{BuCO}_2\text{H})_2$, isolated as the semicarbazone, m. 130-40°. Iso-AmCH₂Ac₂OEt similarly gave 53.2% *E*-*isomethyl-4-(3-chloroacetyl)acetate*, b.p. 110-118°, d_4^{20} 1.0202, n_D^{20} 1.4612, hydrolyzed to 53.5% 1-methyl-4-*isomethyl-4-carbetoxy-1-cyclohexen-3-one*, b.p. 112-125°, d_4^{20} 1.0015, n_D^{20} 1.4708, which with KOH-MeOH gave 30.0% 1-methyl-4-*isomethyl-4-cyclohexen-3-one*, b.p. 81.0°, d_4^{20} 0.9100, n_D^{20} 1.4808. Similarly prepd. were 1-*isobenzyl-4-(3-chloroacetyl)acetate* (73.2%), b.p. 116.8°, d_4^{20} 1.1235, n_D^{20} 1.5202; 1-methyl-4-*isobenzyl-4-carbetoxy-1-cyclohexen-3-one*, (61.6%), b.p. unstd., m. 116-17° (from KOH); 1-methyl-4-*benzyl-4-cyclohexen-3-one* (73.4%), b.p. 125.7°, d_4^{20} 1.0307, n_D^{20} 1.4511; 1-monooxime, m. 180 (b.p. from ROH). Oxidation gave $\text{AcCH}_2\text{CH}(\text{CH}_3)_2\text{CO}_2\text{H}$, b.p. 180-3°, m. 63-57%. G. M. K.

MELIKYAN M.O.

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John
~~6-Chloro-5,7-nonadien-2-one. M. O. Melikyan and E. S.~~
~~Galichyan K. Mark Polivich. Inst. Khim. Nauk Akad.~~
~~Nauk Armjan. S.S.R., Ser. Fiz.-Mat., Estestv. i Tekh.~~
~~Nauk 8, No. 6, 55-8 (1955) (in Russian).—CICH₂CH:
CCICH:CHMe and EtO₂CCHNaAc form EtO₂CCHAC-
CH₂CH:CCICH:CHMe (I), b₉₄₋₁ 127-30°, d₂₅ 1.1041,
n_D²⁵ 1.4930, which hydrolyzed at room temp. with 10%
NaOH and acidified forms Ac(CH₂)₂CH:CCICH:CHMe
(II), b₉₄ 92-4°, d₂₅ 1.03257, n_D²⁵ 1.4998; semicarbazide,
m. 102-3°. II has a flowery odor and can be used in per-
fumery. Attempts to cyclize I and II with H₂SO₄ were not
successful.~~
John Howe Scott

PM

TATEVOSIAN, G.T.; TERZYAN, A.G.; MELIKYAN, M.O.

Mechanism of the reaction of sulfuric acid hydrolysis of
vinyl-type chlorides. Izv. AN Arm. SSR. Khim. nauki 18 no. 3:
282-289 '65.
(MIRA 18:11)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy SSR.
Submitted April 27, 1964.

L 34102-66 EWT(m)/EWP(j)/T IJP(c) RM
ACC NR: AP6008710 SOURCE CODE: UR/0079/65/035/011/2020/2021

AUTHOR: Andrianov, K. A.; Astakhin, V. V.; Melikyan, M. O.; Mushegyan, N. G.;
Pyzhov, V. K.

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B

ORG: none

TITLE: Synthesis of ethoxypolyorganosiloxanes

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 2020-2021

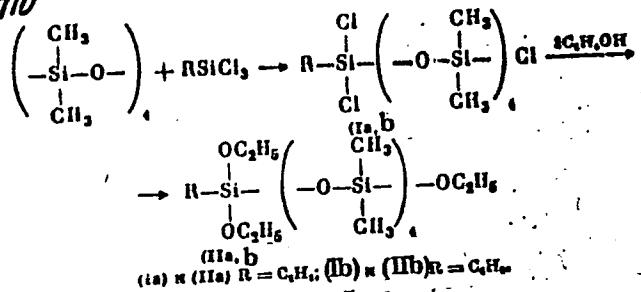
TOPIC TAGS: organosilicon compound, silane, siloxane

ABSTRACT: The telomerization reaction of octamethylcyclotetrasiloxane with phenyltrichlorosilane and ethyltrichlorosilane was investigated. Since the telomerization reaction in the presence of catalysts is known to be complicated by side processes forming oligomer homologs instead of telomers, the experiments were carried out in glass ampoules, and in order to increase the conversion, the temperature was raised to 300C. The oligomers obtained were converted into ethoxy derivatives by the action of alcohol in the presence of a hydrogen chloride acceptor. The reaction proceeds as follows:

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ACC NR: AP6008710



The new compounds 1-phenyl-1, 9-triethoxyoctamethylpentasiloxane and 1-ethyl-1, 1, 9-triethoxyoctamethylpentasiloxane were thus synthesized in yields of 45 and 41% respectively, and their physical properties were measured. Orig. art. has: 1 table.

SUB CODE: 07 / SUBM DATE: 20Jul64 / ORIG REF: 001

Card 2/2 mT

MELIKYAN, M.S. (Tbilisi).

Topical diagnosis and therapy of perivisceritis. Klin.med. 31 no.2:72 F
'53. (MLRA 6:5)
(Abdomen--Diseases)

MELIKYAN, N. A.

"Results of a Comparison of Polyclinic Diagnoses With Hospitals,"
Sov. Med., No. 5, 1948.

MELIK'YAN, N. M.

Mbr., Yerevan State Univ. im. V. M. Molotov, -1946-. "Anatomical Structure of Stalk of Plants as Influenced by the Duration of Diurnal Illumination," Dok. AN, 53, No. 8, 1946; "Anatomical Structure of Stem in Sunflower as Influenced by Period of Diurnal Illumination," Dok. AN, 53, No. 9, 1946.

Melikyan, N.M.

USSR / Cultivated Plants. Technical. Oleaginous.
Sugar-Bearing.

L-5

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22786

Author : Araratyan, A.G., Melikyan, N.M.

Inst : Not given

Title : Wild Fatty-Oily Plants of Armenia.

Orig Pub : Sb. nauch. tr. Arm. s.-kh. in-ta, 1955, No 9, 195-213

Abstract : In search of new fatty raw materials for different industrial needs, the authors tested over 1,000 plant species for oil content of seeds and for the iodine number of the oil. The simple and rapid method of an oil spot is quite suitable, in the authors' opinion. Some plants were tested for oil for the first time. Families of boraginaceae

Card : 1/2

USSR / Cultivated Plants. Technical. Oleaginous.
Sugar-Bearing.

L-5

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22786

Abstract : (7 species), compositae (22), cruciferae (16), labiateae (21), ranunculaceae (7), solanaceae (6) were thoroughly tested. Three species were noted which had a very high iodine number: echinochloa, Echinops sphaerocephalus L. (180.5), Augstrian flax (175.7), and buckthron, Rhamnus cathartica L. (158.6).

Card : 2/2

MELIKIAN, N.M.

Some characteristics of male and female hemp plants [in Armenian
with summary in Russian]. Nauch. trudy Brev. un. 54 pt.1:45-52
'56. (MLRA 10:4)

1. Katedra fisiologii i anatomii rasteniy.
(Hemp) (Lignin)

MELIKYAN, N.M.

Anatomical variations and the amount of lignin in stems of
lodged and unlodged wheat plants. Nauch.trudy Erev.un. 64:
43-66 '58. (MIRA 11:12)

1. Mafedra fiziologii i anatomii rasteniy Yerevanskogo
gosudarstvennogo universiteta.
(Wheat) (Lignin)

MELIKYAN, N.M.; TSOVYAN, Zh.V.

Effect of the use of various fertilizers on the dynamics of lignin
accumulation and structural changes in corn. Nauch. trudy Erev. un.
69 Ser. biol nauk no. 8:61-69 pt. 1 '59. (MIRA 14:4)

1. Kafedra fiziologii i anatomii rasteniy Yerevanskogo gosudarstven-
nogo universiteta.
(CORN (MAIZE)—FERTILIZERS AND MANURES)

MELIKYAN, N.M.; TSOVYAN, Zh.V.

Characteristics of the formation of the vegetative cones of
potato eyes in the Sevan region and the Ararat Plain. Izv.
AN Arm. SSR. Biol. nauki 16 no.7:85-94 Jl '63.

(MIRA 16:11)

1. Kafedra anatomii i fiziologii rasteniy biologicheskogo
fakul'teta Yerevanskogo gosudarstvennogo universiteta.

Hydrodynamics of the flotation phenomena. I. Rise
Zhur. Prom. Khim. 29, 1703-802 (1967). The flow of air bubbles through H_2O in vertical tubes was studied photographically. Tubes 4, 20, and 45 mm in internal diam. and 2.6 and 8 m long were used with bubbles of 6 different diam. from 5 to 45 mm. At low frequencies of bubble formation, the velocity W_a of the air bubble was const. and independent of its diam. (cf. O'Brien et al., *C.A.* 30, 0581) as long as the periphery of the spheroid approached the walls of the tube. With larger bubbles the spheroids became cylindrical. At low velocities W_a (up to 10 cm./sec.) and at low heights H of the gas-liquid mixt. the exptl. values fall on the straight line $H = h(1 + (W_a/W_0))$, where h is the initial height of the liquid before bubbling started. At higher values of W_a the deviation from the theoretical increased with W_a . The hydrodynamics of the process was represented by 3 currents: the upward rise of air and mixt. of air-liquid and the downward flow of the liquid. The neglect of the latter could account for the failure of theoretical relations applied to the treatment of air-lifts. The velocity of a rising bubble, normally measured in reference to the wall of the tube, in reality consists of the components W_a and W_{\perp} . The error is proportional to the diam. of the bubble and the frequency of bubble emission. Theoretical equations were derived indicating that the work of expansion is completely spent on overcoming friction during the process of rising; the loss of potential energy of the bubble rising during a period t due to the downward current of the liquid phase is equal to the

$$\text{work of expansion, } \int_{H_0}^H W_a dt \approx (\rho_H v_{air}/2L) \ln(\rho_L/\rho_H)$$

I. Benewitz

Hydrodynamic character of rising bubbles. II. Hydrodynamic regimes of rising was in a liquid layer. H. A. Michigan. This paper shows that an attempt is made to generalize different types of gas flow through liquid media at special conditions of hydrodynamic factors which are connected with the oxygen content in the liquid phase. The results obtained are applied to the case of air passing through a

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033410015-3"

AZIZYAN, A.G.; MELIKYAN, R.A.; SMIRNOV, N.I.

Hydrodynamics of bubbling processes. Report No.1: Rate of mass diffusion of gas bubbles in a liquid medium as a function of the nature and depth of the liquid and the dispersion and velocity of the gas. Izv. AN Arm. SSR, Ser.tekh.nauk 14 no.2:31-42 '61.
(MIRA 14:3)

(Bubbles)

AZIZYAN, A.G.; MELIKYAN, R.A.; SMIRNOV, N.I.

Hydrodynamics of bubbling processes. Report No.2: Derivation of equations determining mass emersion of gas bubbles in a liquid medium in case of bubbling and mixed processes. Izv. AN Arm. SSR. Ser. tekhn. nauk 14 no.3: 59-69 '61. (MIRA 14:8)
(Bubbles)

CHUKHADZHYAN, G.A.; MELIKYAN, R.A.; BABAYAN, Sh.A.; VARTANYAN, S.A.

Condensation of formaldehyde with acetylene. Synthesis of
2-butyne-1,4-diol. Izv. AN Arm.SSR. Khim.nauki 14 no.5:445-449
'61. (MIRA 15:1)

1. Tsentral'naya zavodskaya laboratoriya zavoda imeni S.M.
Kirova i Institut organicheskoy khimii AN Armyanskoy SSR.
(Butynediol)

VARTANYAN, S.A.; CHUKHADZHYAN, G.A.; MELIKYAN, R.A.; BABAYAN, Sh.A

Laboratory method of preparing primary-secondary and primary-tertiary acetylenic glycols. Izv.AN Arm.SSR.Khim.nauki 15 no.1:45-51 '62.

(MIRA 15:7)

1. Tsentral'naya zavodskaya laboratoriya zavoda imeni S.M. Kirova i Institut organicheskoy khimii AN Armyanskoy SSR.
(Glycols)

I. 36290-65 EWT(m)/EPF(c)/EWP(j) PC-4/Pr-4 RM
ACCESSION NR: AP5008142 S/0286/65/000/005/0021/0021

AUTHORS: Melikyan, R. A.; Yegishyan, V. G.; Turabova, M. G.

24

B

TITLE: A method for obtaining chloroprene! Class 12, No. 168685 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965. 21

TOPIC TAGS: chloroprene, vinyl acetate, hydrogen chloride, copper chloride, amine, formamide, dimethylformamide

ABSTRACT: This Author Certificate presents a method for obtaining chloroprene by the interaction of vinyl acetylene and hydrogen chloride. The reaction is carried out at a high temperature in the presence of a catalyst of hydrogen chloride and copper chloride in a solution. To increase the yield of the final product, the catalyst is used in a solution of amine or replaced oxygen-bearing amines, such as formamide, dimethylformamide, or methylpyrrolidon.

ASSOCIATION: none

SUBMITTED: 26Feb64

ENCL: 00

SUB CODE: OC

NO REF Sov: 000

OTHER: 000

Card 1/1 10

ADZHEMYAN, E.; MELIKYAN, T. [deceased]

Electrostatic spray painting and heat-radiation drying in
the electric machinery industry of Armenia. Prom.Arm. 5
no.8:27-29 Ag '62. (MIRA 15:8)

1. Armyanskij filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
(Eriwan--Electric equipment industry)
(Spray painting, Electrostatic) (Infrared drying apparatus)

MELIKYAN, V.G., nauchnyy sotrudnik

Vibrio abortion in sheep and its control. Veterinariia 40 no.7:
35-38 Jl '63. (MIRA 16:8)

1. Armyanskiy nauchno-issledovatel'skiy institut zhivotnovodstva
i veterinarii.

(Armenia—Abortion in animals)
(Armenia—Sheep—Diseases and pests)

Ye. L.

MELIKYAN, ... and A. Ginzburg

"From the experience of the clinic of the Yerevan Zooveterinary Institute"

SOURCE: Veterinariya, Vol 26, No 7, 1949, p 28

MELIKYAN, YE. L.

Melikyan, Ye. L. -- "Coccidiosis of Farm Animals in Armenian SSR." Cand Vet Sci,
Yerevan Zooveterinary Inst, 20 Jan 54. (Kommunist (Yerevan), 8 Jan 54)

SO: SUM 168, 22 July 1954

MELIKYAN, Ye. L.

USSR/Medicine - Veterinary, Coccidia; Eimeria

Card 1/1

Author : Melikyan, Ye. L., Scientific Associate

Title : Survival time of coccidia under environmental conditions

Periodical : Veterinariya, 31, 43-44, May 1954

Abstract : The causes for coccidiosis in sheep and goats, and economic loss caused by the genus Eimeria of the Sporozoa order of parasites in some rayons of the Armenian SSR is discussed. Sporelike, resistant forms known as oocysts were found in various stages of development in the soil of pasture lands, ponds, manure, etc. Oocysts can live in their immediate environment for more than a year. The principles of control are essentially the same as for all domesticated animals and their parasites.

Institution : Armenian Scientific-Research Veterinary Institute

Submitted :

MELIKYAN, Ye. L.

"Coccidiosis of Sheep and Goats in the Armenian SSR." Cand Vet Sci,
Inst of Animal Husbandry, Minstry of Sgriculture and Procurement, Armenian
SSR' Yerevan, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Insitutions (11)

SO: Sum. No. 521, 2 Jun 55

MELIKYAN, Ye.L., kandidat veterinarnykh nauk.

Pathologomorphological changes in sheep and goats in coccidiosis.
Veterinaria 33 no.4:34-36 Ap '56. (MLRA 9:7)

1.Yerevanskiy, Ye.L., kandidat veterinarnykh nauk. ?
(Sheep--Diseases) (Goats--Diseases) (Coccidiosis)

USSR/Microbiology - Microbes Pathogenic for Man and Animals.
Brucellae

F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99431

Author : Boyakhchyan, A.B., Vardanyan, G.A., Melikyan, Ye.L.,
Ter-Ovanesova, O.G.

Inst : Yerevan Zootechnical Veterinary Institute

Title : Some Data on the Dynamics of the Serological Reactions
in a Non-Secluded Brucellosis Isolator.

Orig Pub : Tr. Yerevansk. Zootekhn. vet. in-ta, 1957, vyp. 21, 203-
207

Abstract : The dynamics of the serological reactions were studied
in cattle affected with brucellosis on 1 non-secluded
farm with brucellosis where, in the course of 1952-1956,
cattle affected with brucellosis were kept. There were
78 positively reacting animals prior to the investigation

Card 1/2

MELIKIAN, E. L., AGABABYAN, M. I. and VARDANYAN, G. A.

Bolezni sel'skokhoziaistvennykh ptits i ikh profilaktika
(Diseases of agricultural fowls and their prophylaxis). Erevan',
Aipetrat, 1959, 190 pages with illustrations, Price 3 r. 20 k. bound;
1,000 copies. In the Armenian language.

BOYAKHCHIAN, A. B.; AGABABYAN, M. M.; BARDANYAN, G. A.; MELIKYAN, Ye. L.;
TEROVANESOVA, O. G.; AREVSHATYAN, M. S.

Dynamics of the thermoallergic reaction in experimental brucellosis in rabbits with the application of radioactive isotopes.
Izv. AN Arm. SSR. Biol. nauki 15 no.4:73-80 Ap '62.
(MIRA 15:7)

1. Kafedra epizootologii Yerevanskogo zooveterinarnogo instituta.

(BRUCELLOSIS IN ANIMALS) (RADIOACTIVE TRACERS)

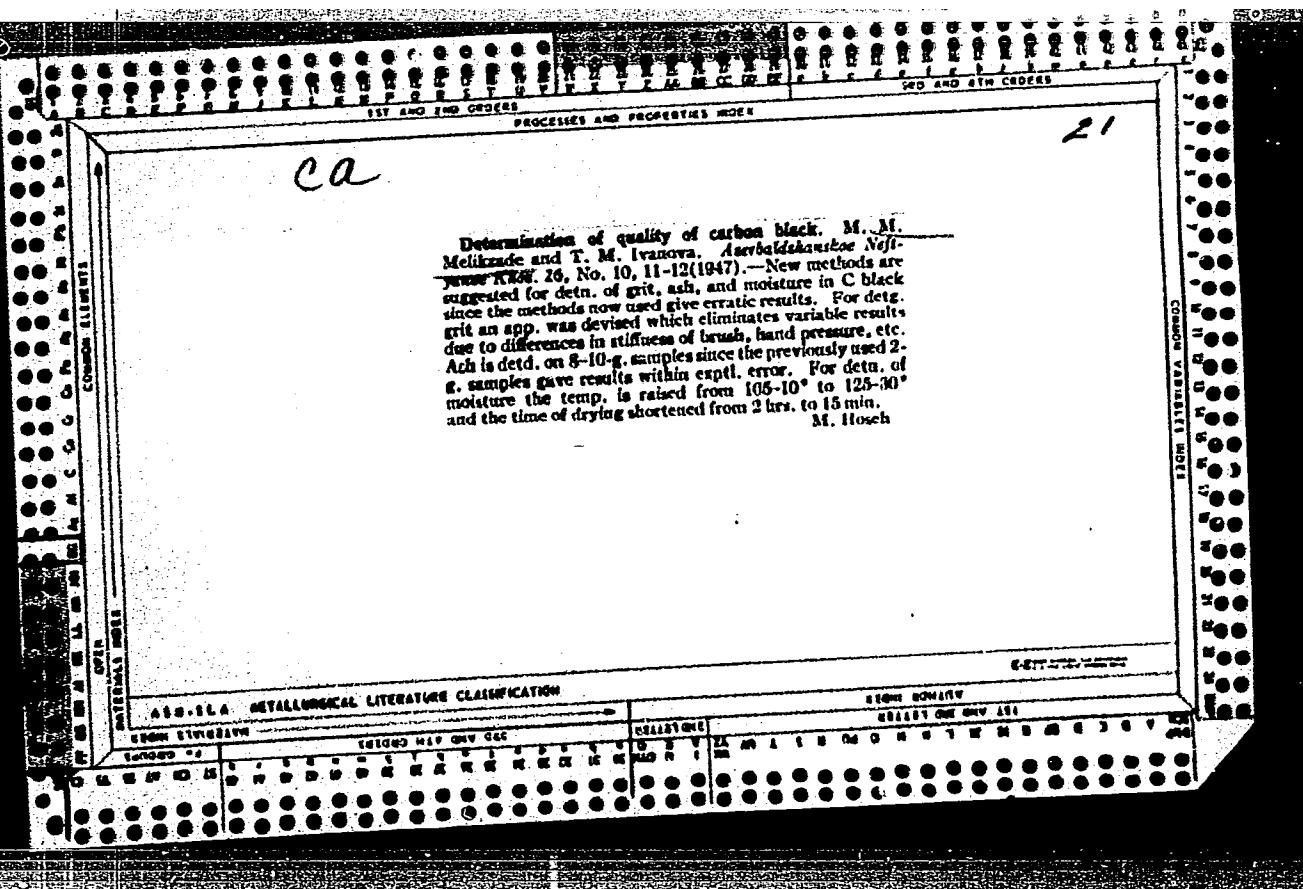
MELIKYAN, Yeznik Levanovich

[Little-known communicable diseases of farm animals] [Malo-
izuchennye zaraznye bolezni sel'skokhoziaistvennykh zhivot-
nykh. Erevan, Armianskoe gos. izd-vo] 1963. 157 p. [In
Armenian] (MIRA 17:4)

MELIKYANTS, R.V.; RABINOVICH, B.V.

Using automatic compensators in controlling electric parameters of
electrolytic series. Sbor.mat.po avtom.proizv.prets.i disp. no.5:
94-100 '60. (MIRA 14:4)

1. Konstruktorskoye byuro "TSvetmetavtomatika."
(Electronic control) (Electrolysis)



MELIK-ZADE, Mir-Kyazim Mekhti oglu; ZIZIN, Valentin Grigor'yevich;
RAMAZAN-ZADE, M.G., redaktor; SHTEYNGEL', A.S., redaktor
izdatel'stva

[Raman spectra and their use in petroleum analysis] Spektry
kombinatsionnogo rasseleniya sveta i ispol'zovanie ikh v neftia-
nom analize. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-
tekhn.lit-ry, 1956. 174 p. (MIRA 10:9)
(Raman effect) (Petroleum)

MELIK-ZADE, M.

COVERAGE: This collection of papers covers a very wide field at the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radiotracers in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radiotracers to techniques of visual control, problems of extraction and lubrication of metals and alloys, problems of friction and wear, the study of metals and alloys, problems of strength and fatigue, useful cutting tools, engine performance, and defects in metal casting, etc. Several papers are devoted to the use of radiotracers in the automation of industrial processes, recording and measuring devices, radiation control, fluorometers, level gauges, safety devices, quality control, flowmeters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as transactions of the All-Union Conference on the Use of Radiotracer and Atable Isotopes and Radiation in the National Economy.

References are given at the end of most of the papers in this section, my thanks to those who have contributed.

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Kalliongis, D.E. (General Duty Research Institute - Institute of Metal Casting).
 117 Institute - Central Diesel Research Institute. Skinflinting
 Counter for the Measurement of Radiotoxicity in Liquids 69
 Laskaris, A.J. (Institut Maschinendreie AM SBM - Institute of
 Mechanical Engineering, Academy of Sciences, USSR). Research on
 Metal Casting 94
 Lazebnik, B.D. (Institut nauchno-tekhnicheskogo obrazovaniya - Institute of
 Mechanical Engineering, Academy of Sciences, USSR). Study of the
 Wear of Hard-Alloyed Cutting Tools 102
 Yakovlev, G.M. (Belorussky Politekhnichesky Institut - Belarussian
 Polytechnical Institute). Study of the Wear of Cutting
 Tools 109

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033410015-3"

MELIK-ZADE, M.M.; KHANLAROVA, A.G.; MUSAYEV, M.R.; SUBKHANVERDIKHA NOVA,
V.V.; FAMADZHEV, Kh.F.

Radioisotope evaluation of the stability of the AzNII-7 additive
in Diesel oil. Sbor.trud.AzNII MP no.2:279-287 Ag '58.
(MIRA 12:6)

(Diesel fuels--Additives)
(Radioisotopes)

MELIKZADE, M.M.; SUBKHANVERDIKHOANOVA, V.V.

Infrared spectroscopic and electron microscope methods in the study of petrochemical products [in Azerbaijani with summary in Russian]. Azerb. neft. khoz. 37 no.7:34-36 J1 '58.(MIRA 11:9)
(Petroleum products--Spectra) (Electron microscopy)

MASIROV, A.B.; ASHUMOV, G.G.; MAMAZOV, I.I.; MELIK-ZADE, M.M.

Studying the individual hydrocarbons of the gasoline fraction
obtained from the Balakhan' heavy oil [in Azerbaijani with
summary in Russian]. Azerb.neft.khoz. 37 no.8:40-42 Ag '58.
(Hydrocarbons) (Gasoline) (MIRA 11:11)

MELIKZADE, M.M.

Corrosion protection of metals in the production of aluminum
silicate catalysts. Azerb. neft. khoz. 37 no.9:38-39 S '58.
(MIRA 11:12)

(Aluminum silicates) (Steel—Corrosion)
(Bituminous materials)

MELIK-ZADE, M.M.; BUZOVA, N.G.; MUSAYEV, M.R.; SAFARALIYEVA, I.G.; ALIYEV, R.G.

Investigation of the structure of coke deposits on an alumino-silicate catalyst. Sbor. trud. Az NII NP no.4:81-88 '59.

(MIRA 15:5)

(Aluminosilicates)

MELIK-ZADE, M.M.; KHANLAROVA, A.G.; SUBKHANVERDIKHOVA, V.V.; FARADZHEV,
Kh.F.; KERIMBEKOV, A.V.

Physicochemical investigation of dispersing and stabilizing prop-
erties of some additives. Sbor.trud.Az NII NP no.4:191-200 '59.
(MIRA 15:5)

(Lubrication and lubricants--Additives)

KHANLAROVA, A.G.; MELIK-ZADE, M.M.; FARADZHEV, Kh.F.; SUBKHANVERDIKANOVA,
V.V.; KHANLAROV, G.G.

Using tagged atoms for determining the filming effect of additives
in lubricants. Azerb.neft.khoz. 38 no.11:36-39 N '59.
(MIRA 13:5)

(Lubrication and lubricants)

ALIYEV, Kyamal Ali oglly, kand.tekhn.nauk; MELIK-ZADE, M.M., dotsent,
kand.tekhn.nauk, red.; RASHKEVSKAYA, T.A., red.izd-va

[Gas appliances for domestic use] Bytovye gazovye prihory.
Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhn.lit-ry,
1960. 170 p.

(Gas appliances)

MELIK-ZADE, M.M.; KHANLAROVA, A.G.; SUBKHANVERDIKHANOVA, V.V.;
FARADZHEV, Kh.F.

Use of radioisotopes in evaluating the characteristics of
film formation by oil additives on friction surfaces. Azerb.
khim. zhur. no.2:127-134 '60. (MIRA 14:8)
(Lubrication and lubricants--Additives)

MELIKZADE, M.M.; MUSAYEV, M.R.

Catalytic cracking of normal hexadecane on al aluminosilicate catalyst. Azerb.khim.zhur. no.3:43-47 '60. (MIRA 14:8)
(Hexadecane) (Cracking process)

MELIKZADE, M.M.; MUSAYEV, M.R.

Role played by individual hydrocarbons in the formation of coke on an aluminosilicate catalyst under the conditions of catalytic cracking. Azerb.khim.zhur. no.4:17-20 '60.

(MIRA 14:8)

(Hydrocarbons) (Coke) (Cracking process)

S/081/61/000/013/017/028
B110/B205

AUTHORS: Khanlarova, A. G., Melik-zade, M. M., Faradzhev, Kh. F.,
Subkhanverdikhanova, V. V.

TITLE: Study of the effect of the nature of the oil medium upon the
formation of a protective film by the tagged admixtures
AzNII-7 (AzNII-7) and ЦИАТИМ-339 (TsIATIM-339)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1961, 526, abstract
13M302 (Azerb. neft. kh-vo, 1960, no. 7, 34 - 36)

TEXT: The authors studied the formation of anticorrosion films (protective
films) on lead bronze under the action of 3% oil solutions of AzNII-7
(AzNII-7) and ЦИАТИМ-339 (TsIATIM-339) admixtures tagged with radio-
isotopes. The experiments were carried out with a lead bronze - steel
pair at 180°C within 600 min, using a method previously described (RZhKnim,
1960, No. 13, 54355). D-11 (D-11), CY (SU), and MT-16 (MT-16) oils with
different degrees of purity, fractions of hydrocarbons of different
groups, separated from these oils by adsorption on silica gel, as well as
dinonyl benzene and trihexyl benzene were used as oil media. The data

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S/081/61/000/013/017/028
B110/B205

Study of the effect...

presented illustrate the great effect of the chemical nature of the oil medium on the formation of anticorrosion films and on the corrosive wear of the metal. Above all, the data indicate that in naphthene-paraffin fractions and oil~~MQ~~ the protective film formed is larger and wear is lower than in aromatic hydrocarbon fractions and in pure aromatics. [Abstractors note: Complete translation.]

Card 2/2

8/08/61/000/008/011/017
B10/B203

AUTHORS: Melikzade, M.M., Musajev, M.R., Seferelijeva, L.h.

TITLE: Study of the mechanism of catalytic cracking of tagged n-amyl benzene on an aluminosilicate catalyst

PERIODICAL: Referativnyy zhurnal Khimiya, no. 8, 1961, 479, abstract 8M 179 (8M179) (Azerb. neft. kh-va, 1960, no. 8, 33 - 35)

TEXT: The authors studied the mechanism of catalytic cracking of n-amyl benzene (I) with a C¹⁴ atom in the side chain and of coke deposited on the catalyst. They give the scheme of the microsynthesis of I. At 450°C, the weight velocity of 1 hr⁻¹ and a test time of 1 hr⁻¹ on a synthetic aluminosilicate catalyst, the amount of cracked portion was found to be 35 - 40% for I. The considerable amount of hydrocarbons separated out proves the high degree of splitting of the side chain of I. The main products of cracking of I are benzene (almost not radioactive) and toluene (this fraction was strongly radioactive). The decomposition products of the chain of (I) are apparently concentrated in the coke

Card 1/2

Study of the mechanism... .

S/081/61/000/008/011/017

B110/B203

which is highly radioactive. References [Abstracter's note: Complete translation]

Card 2/2

S/123/61/000/008/007/013
A004/A104

AUTHORS: Khanlarova, A.G., Melik-zade, M.M., Paradzhev, Kh.F., Sibkhanverdi-khanova, V.V.

TITLE: Tagged atoms in the investigation of the anticorrosion effect of the AzNII-7 (AzNII-7) additive

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 8, 1961, 107, abstract 8B803 ("Azerb. neft. kh-vo", 1960, no. 10, 40 - 41)

TEXT: With the aid of the tagged atoms C¹⁴ and C⁴⁵ the authors studied the anticorrosion effect of the AzNII-7 additive to diesel oil in a lead bronze-steel friction couple. It is shown that the mentioned additive is a corrosion inhibitor. The phenol ring and the metal of the multifunctional AzNII-7 additive participate in the formation of an anti-corrosion film on the lead bronze. The test results are compiled in 2 tables.

N. Savina

[Abstracter's note: Complete translation]

Card 1/1

24825
S/081/61/000/011/026/040
B103/B202

5 3300

AUTHORS:

Melikzade, M. M., Musayev, M. R., Safaraliyeva, I. G.

TITLE:

Study of the cracking reaction of ordinary amyl benzene with tagged carbon atom in the ring on a synthetic aluminosilicate catalyst

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 11, 1961, 480 - 481, abstract 11M174(11M174). ("Azerb. neft. kh-vo", 1960, no. 11, 37 - 38)

TEXT: Experiments are described which were conducted when studying catalytic cracking of ordinary amyl benzene which contained C¹⁴ in the benzene ring, on an industrial aluminosilicate catalyst consisting of spherules. The data obtained permit conclusions on the participation of the benzene ring and the side chain of ordinary amyl benzene in the formation of coke on the catalyst under conditions of catalytic cracking. Catalytic cracking was produced under the following conditions: temperature 450°C, weight velocity 1 per hr, duration of the experiment 1hr. 10.3 g catalyst and 10.4 tagged ordinary amyl benzene with a specific

Card 1/2

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S/081/61/000/011/026/040
B103/B202X
Study of the cracking reaction....

relative activity of 276 466 imp/min per g and a relative total activity of 2 866 380 imp/min were used for the experiment. 9 g (85.5 %) of a liquid catalyst were obtained. The amount of gas and coke on the catalyst as well as the losses were 1.4 g (13.5 %). It was demonstrated that the main activity of the converted part of the ordinary amyl benzene tagged in the ring, passes into the benzene and toluene fraction and into the residue of the liquid catalyzate after fractional distillation. The activity of coke and gaseous products was insignificant. The high activity of benzene proves that it is formed as a result of a direct rupture of the bond between ring and side chain. The considerable activity of toluene justifies the assumption that toluene is a product of the alkylation of active benzene by fragments the side chain. The higher specific activity of the catalyzate residue after fractional distillation as compared to this value for the initial ordinary amyl benzene indicates that the residue is a mixture of high-molecular components in which an active benzene ring participates to a higher degree. [Abstracter's note: Complete translation]

Card 2/2

KHANLAROVA, A.G.; MELIK-ZADE, M.M.; FARADZHEV, Kh.F.; SUBKHANVERDIKHANOVA,
V.V.

Study by the tagged atoms method of the dynamics of the formation of
a protective film on metals with Az NII-7 and TSIATIM-339 additives.
Azerb. neft. khoz. 39 no.1:39-41 Ja '60. (MIRA 14:8)
(Corrosion and anticorrosives)

S/195/61/002/005/019/027
E030/E485

AUTHORS: Melikzade, M.M., Musayev, M.R., Buzova, N.G.,
Safaraliyeva, I.G.

TITLE: The role of the side-chain and benzene nucleus of
n-amylbenzene in the deposition of coke in catalytic
cracking conditions

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 754-757

TEXT: C¹⁴ atoms either in the side-chain or the nucleus of
n-amylbenzene have been used to elucidate their relative
importance in coke formation. Since little is known in detail
about coke formation, a pure hydrocarbon was chosen. The
catalyst was alumino-silica, of 2 to 3 mm pellet size. Reactor
temperature was 450°C with 1/v/v hr space velocity, and the
reaction time taken was 1 hour. The amyl benzene was synthetized
from amyl alcohol; the C¹⁴ atoms (from C¹⁴O₂ obtained from
BaC¹⁴O₃) were introduced either as valerenic acid or in benzol
during the alkylation stage. Typical yields consisted of 10 to
11% gas, 84 to 86% liquid and 4 to 5% wt coke. Experiments with
C¹⁴ in the side-chain were done on a sample of 1.275 g marked feed

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S/195/61/002/005/019/027
E030/E485

The role of the side-chain ...

and 28.725 g unmarked feed. The activity of the liquid product showed that toluene is formed not by breaking the bond between the first and second atoms of the side-chain but by alkylation of benzol with fragments of products of cracked side-chains. The high activity of the coke showed the importance of the side-chain in coke formation. Similar experiments with C^{14} in the benzene nucleus showed that high molecular weight liquid products are formed both from benzene nucleus and from the side-chain, but that coke formation from the side-chain is an order of magnitude greater than from the nucleus. Similar results were obtained on experiments with other pure hydrocarbons (n-hexadecane, mixture of isoamylanes and benzene). The authors studied also the structure of the catalyst after cracking. Adsorption isotherms of the catalyst over methyl alcohol were measured after 50 hours of cracking of benzene, n-hexadecane and isoamylene mixture. They showed that the fraction of wide pores (above 30 Å) fell from 18 to 3%, but that of narrow pores increased. From the weight of coke deposited, it is clearly formed in multimolecular layers in the wide pores. There are 1 figure and 4 tables.

Card 2/3

The role of the side-chain ...

S/195/61/002/005/019/027
E030/E485

ASSOCIATION: Institut neftekhimicheskikh protsessov AN Azerb SSR,
Baku (Institute of Petrochemical Processes
AS Azerbaydzhanskaya SSR, Baku)

Card 3/3

ASHUMOV, G.G.; NASIROV, A.B.; MELIK-ZADE, M.M.

Study of the individual hydrocarbon composition of the gasoline
fraction from Siazan oil. Azerb. neft. khoz. 40 no.1:37-38
Ja '61. *
(Siazan' region--Hydrocarbons)

KHANLAROVA, A.G.; MELIKZADE, M.M.; FARADZHEV, Kh.F.

Interrelation between the protective film of additive AzNII-7 and the products of aging of lubricants studied by the tracer method. Azerb. khim. zhur. no.4:171-176 '63. (MIRA 17:2)

VOSKOBOKENKO, A.; LEBEDEV, D.; KALITA, V. (Krasnodarskiy kray, Stanitsa Kurganskaya); IVANOV, P.; MELIMEVKER, D.; TRIFONOV, N., inzh.

Suggested, created, introduced. Izobr. i rats. no. 9:16-17 S '61.

(MIRA 14:8)

1. Inzhener po ratsionalizatsii, Ussuriyskiy lesozavod (for Voskobokenko).
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DYNKIN, Ye.B., red.; KOLMOGOROV, A.N., red.; KUBILYUS, I.P.
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red.; SMIRNOV, N.V., red.; STATULYAVICHYUS, V.A. [Statulievicius,
V.A.], red.; YAGLOM, A.M., red.; MELINENE, D., red.; PAKERITE, O.,
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histopathol. of western types of spring & summer
encephalitis (Rus))

MELINSHIN, S., vrach, deputat Truskavetskogo gorodskogo Soveta; SMIYAN, I.,
kand.med.nauk (Truskavets); FEDYUSHKO, M., vrach (Truskavets);
BOCHKO, L. (Truskavets)

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2. Predsedatel'
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3. Spetsial'nyy korrespondent zhurnala "Okhrana truda i
sotsial'noye strakhovaniye" (for Bochko).

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Mosk. un.10 no.12:87-92 D '55. (MLDA 9:5)
(Pulse techniques (Electronics))

MELIORANSKIJ A.S.
MELIORANSKIJ, A.S. CARD 1 / 2 PA - 1786
SUBJECT USSR / PHYSICS
AUTHOR ESTULIN, I.V., KALINKIN, L.F., MELIORANSKIJ, A.S.
TITLE The Gamma Quanta emitted by the Nuclei of J, Rh and Co on the
occasion of the Capture of Thermal Neutrons.
PERIODICAL Zurn. eksp. i teor. fiz., 31, fasc. 5, 886-887 (1956)
Issued: 1 / 1957

The present work determines the energies and absolute intensities of the γ -quanta mentioned in the title with from 50 to 600 keV. For this purpose a luminescence spectrometer with a cylinder-shaped NaJ(Tl)-crystal (height 9 mm, diameter 28 mm) was used. As a source of thermal neutrons a physical test reactor with heavy water was used. From the horizontal channel in the shield of the reactor a well-collimated neutron bundle emerged, and in the center of the bundle the target made of the substance to be investigated was located. Under the target there was a NaJ(Tl)-crystal with a photoelectric amplifier. On the occasion of the measuring of the γ -rays produced on the occasion of neutron capture, the measuring results obtained in the case of an opened bundle of thermal neutrons (N_0) were compared with those obtained when the output of the neutron collimator was covered by means of a lid of $B_4C(N_1)$. The effect (N) produced by the thermal neutrons on the target is equal to the difference of these two results: $N = N_0 - N_1$. In the spectra of the investigated targets the photopeaks of soft γ -quanta (emitted by the nuclei on the occasion of the capture of thermal neutrons) rise above the background of the momenta originating from harder γ -gamma quanta.

Zurn.eksp.i teor.fis.,31, fasc.5, 886-887 (1956) CARD 2 / 2

PA - 1786

On the occasion of the capture of thermal neutrons by iodide nuclei, γ -quanta with $E = 135 \pm 4$ keV were noticed which had escaped the attention of other authors. The results of such a test are shown in form of a diagram in which the photopeak caused by γ -quanta with 135 keV is distinctly visible. The intensity of these gamma quanta is $n = 30$ per 100 captures of thermal neutrons. Other much smaller peaks are due to the apparatus.

On the occasion of the capture of thermal neutrons by Rh nuclei 4 discrete lines with the energies $E_1 = 217 \pm 4$; $E_2 = 176 \pm 4$; $E_3 = 133 \pm 4$ and $E_4 = 96 \pm 4$ keV were observed. Their intensities per 100 acts of capture of thermal neutrons are $n_1 = 9,3$; $n_2 = 18$; $n_3 = 8$ and $n_4 = 16$. The latter values have an accuracy of 15-20%. The lines found can not be connected with the activation of the target because they differ as to the energy of the γ -quanta of the Rh¹⁰⁴ isomeres. The γ -lines found here correspond to the transitions between these levels.

On the occasion of capture of thermal neutrons by Co-nuclei, γ -quanta with the energies $E_1 = 276$ keV and $E_2 = 226$ keV and with the same intensity of about 20 γ -quanta per 100 captures of neutrons were noticed.

INSTITUTION: Moscow State University.

MELIORANSKIY, A. S.

10757 ✓ SOFT Y-RAYS FROM THE CAPTURE OF THERMAL NEUTRONS BY NUCLEI. L. V. Esaulov, L. F. Kalintsev, and A. S. Melioranskiy [Moscow State Univ.]. Nuclear Phys., 4, 91-114 (1957) Aug.

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A luminescent spectrometer was used to measure the relative and absolute intensities of the γ -radiations emitted by the ^{10}B , ^{11}B , ^{13}C , ^{15}N , and $^{17}He^{17}$ nuclei following the capture of thermal neutrons. The energy range of the radiation is the 50-500 eV range. An attempt was made to obtain from the known excited states of the investigated nuclei a description of the apparatus and method of measurement is presented.

MELIORANSKIY, A. S.

Distr: 4E3d

3320 19 19/19 19
GAMMA QUANTA EMITTED BY Li^{7} AND Co NUCLEI IN
THERMAL NEUTRON CAPTURE. I. V. Estulin, L. F.
Kalinin, and A. S. Melioranski (Moscow State Univ.).
Soviet Phys. JETP 4, 752-4 (1957) June.

9 RML

MELIORANSKI V. A. S.

56-5-7/55

AUTHOR
TITLE

BESTULIN, I.V., KALINKIN, L.P., MELIORANSKIY, A.S.
The Soft γ -Radiation Emitted By Nuclei at the Capturing of
Thermal Neutrons.

PERIODICAL

(Myagkoye γ -izlucheniye, ispuskayemoye yadrami pri zakhvate
teplovykh neytronov.-Russian)
Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 32, Nr 5, pp 979-
992 (USSR)

ABSTRACT

The paper under review describes the measurement of the energy
and of the absolute yields of the γ -quanta (in the energy in-
terval from 50 keV to 500 keV) which are emitted by nuclei
at the capturing of thermal neutrons. These measurements were
conducted by means of a monocrystal luminescence spectrometer.

The first chapter of the paper under review deals with the
geometrical conditions of the experiment and of the luminescence
spectrometer. In this experiment, a physical and of the luminescence
reactor with heavy water was used as source for the neutrons. The
collimated bundle of the thermal neutrons, brought out of the
protection of the reactor, had an intensity of $\sim 10^7$ neutrons/
cm² sec. In the luminescence spectrometer a photoelectric ampli-
fier C with a cylindrical NaJ(Tl) crystal was used.

CARD 1/3